

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	10/776,022
Filing Date	February 9, 2004
First Named Inventor	SHEHADA, Ramez E.N.
Art Unit	3762
Examiner Name	Not known
Attorney Docket Number	64693-101

Sheet 1 Of 4

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number -Kind Code <sup>2</sup> (if known)	Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
LC	1	US-6,556,851	04-29-2003	Ott et al.
	2	US-6,547,761	04-15-2003	Liu
	3	US-6,491,682	12-10-2002	Paderni
	4	US-6,437,855	08-20-2002	Wilson et al. (Honeywell International Inc., Assignee)
	5	US-6,411,838	06-25-2002	Nordstrom et al.
	6	US-6,334,064	12-25-2001	Fiddian-Green
	7	US-6,134,460	10-17-2000	Chance
	8	US-5,965,873	10-12-1999	Simpson et al. (Lockheed Martin Energy Research Corporation, Assignee)
	9	US-5,916,171	06-29-1999	Mayevsky
	10	US-5,746,207	05-05-1998	McLaughlin et al.
	11	US-5,685,313	11-11-1997	Mayevsky (Brain Monitor Ltd., Assignee)
	12	US-5,645,062	07-08-1997	Anderson et al.
	13	US-5,512,045	04-30-1996	Gurchumelidze
	14	US-5,349,961	09-27-1994	Stoddart et al.
	15	US-5,337,748	08-16-1994	McAdams et al.
	16	US,5,108,364	04-28-1992	Takezawa et al.
	17	US-5,106,387	04-21-1992	Kittrell et al.
	18	US-4,721,115	01-26-1988	Owens
	19	US-4,654,029	03-31-1987	D'Antonio
	20	US-4,416,285	11-22-1983	Shaw et al.
	21	US-4,317,452	03-02-1982	Russo et al.
	22	US-3,866,599	02-18-1975	Johnson

**U.S. PUBLISHED PATENT APPLICATIONS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number -Kind Code <sup>2</sup> (if known)	Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
LC	23	US2002/0082587 A1	06-27-2002	Noda

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LC

10-3-05

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				Examiner Name	Not known
Sheet	2	of	4	Attorney Docket Number 64693-101	
<b>OTHER PRIOR ART – NONPATENT LITERATURE DOCUMENTS</b>					
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T <sup>2</sup>
LC7A	24	BUISE, M.P. et al. Reflectance Spectrophotometry and Tissue Oxygenation in Experimental and Clinical Practice. Abstract only. (A printed publication published prior to February 9, 2004.)			
	25	CORDIS (Community Research & Development Information Service). Description of MICROTRANS (Microprobe multi-sensor for graft viability monitoring during organ preservation and transplantation) Project. 5 pages. (A printed publication published prior to February 9, 2004.)			
	26	FERTMANN, J.M. et al. Measurement of Regional Perfusion and Oxygen Saturation During Human Simultaneous Pancreas-Kidney Transplantation – Correlation with Intravital Microscopy. (A printed publication published prior to February 9, 2004.) Poster.			
	27	HÖLZLE, F. et al. Donor Site Morbidity of the Osteocutaneous Fibula Flap. Abstract only. In Abstracts of the 16th Congress of the European Association for Cranio-Maxillofacial Surgery, 3-7 September 2002, Münster, Germany.			
	28	HÖLZLE, F. et al. Nutritive Perfusion at Donor Site After Microvascular Fibula Transfer. Abstract only. In Microsurgery. 2003; 23(4): pp. 306-312.			
	29	HÖLZLE, F. et al. The Radial Artery as a Carrier of the Osteocutaneous fibula Flap for Reconstruction of the Mandibula. Abstract only. In Abstracts of the 16th Congress of the European Association for Cranio-Maxillofacial Surgery, 3-7 September 2002, Münster, Germany.			
	30	KAKIHANA, Y. et al. Effects of Ligustrazine on Hepatic Oxygenation in Isolated Perfused Rat Liver. Abstract only. In Vivo, Jan-Feb 1999; 13(1):pp. 29-34.			
	31	KASLER, M. et al. [Noninvasive Intraoperative Measurement of Intracapillary Hemoglobin Oxygenation and Relative Hemoglobin Concentration in Surgical Skin Flaps.] (article in German). Abstract only. In HNO, Oct. 1990; 38(10): pp. 375-378.			
	32	KRUG, A. Non-Invasive Oxygen and Perfusion Monitoring. Abstract only. In Danish Microsurgical Society, Hindsgavl Congress, 21-22 March 2002.			
	33	LEA MEDIZINTECHNIK. Tissue Blood Supply after Transplantation of a Pedicled Flap-Microcirculation Two Days and One Week After Surgery and Flap Conditioning. Abstract only. (A printed publication published prior to February 9, 2004.)			
	34	LEA MEDIZINTECHNIK. Tissue Neovascularisation One Week After Transplantation. Abstract only. (A printed publication published prior to February 9, 2004.)			
Examiner Signature	LC MD			Date Considered	10-3-05

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LCH	35	LEA MEDIZINTECHNIK. Viability of Flaps: Intra- and Postoperative Monitoring for Increase of Transplantation Success Rate. (A printed publication published prior to February 9, 2004.)				
	36	LEA MEDIZINTECHNIK. Postoperative Long-Term Monitoring. Abstract only. (A printed publication published prior to February 9, 2004.) 3 pages.				
	37	LEA MEDIZINTECHNIK. Company Profile LEA Medizintechnik GmbH. (A printed publication published prior to February 9, 2004.)				
	38	LEA MEDIZINTECHNIK. O2C Oxygen To See. Price List. (A printed publication published prior to February 9, 2004.) 3 pages.				
	39	LEA MEDIZINTECHNIK. Fields of Application of O2C Oxygen To See. (A printed publication published prior to February 9, 2004.) 3 pages.				
	40	LEA MEDIZINTECHNIK. What Measures O2C Oxygen To See? (A printed publication published prior to February 9, 2004.) 1 page.				
	41	LEA MEDIZINTECHNIK. O2C Oxygen To See: Measurements of Tissue Circulation, Saturation of Hemoglobin SO2, Local Amount of Hemoglobin. (A printed publication published prior to February 9, 2004.) 6 pages.				
	42	LEA MEDIZINTECHNIK. O2C (Oxygen To See): Perfusion of Tissue; Capillary-Venous Oxygen Saturation; Blood Filling of Microvessels. (A printed publication published prior to February 9, 2004.) 3 pages.				
	43	LEA MEDIZINTECHNIK. O2C Probes. (A printed publication published prior to February 9, 2004.)				
	44	LEA MEDIZINTECHNIK. Micro Probes. (A printed publication published prior to February 9, 2004.)				
	45	LOEFFELBEIN, D. et al. Combined Non-Invasive Tissue Oxygen and Flow Monitoring in Fasciocutaneous Forearm Flaps. Abstract only. (A printed publication published prior to February 9, 2004.)				
	46	MAYEVSKY, A. et al. Real-time optical monitoring of tissue vitality in vivo. In Optical Fibers and Sensors for Medical Applications. II. I. Edt Gannot. Proceedings of SPIE, 2002; 4616:pp. 30-39.				
* V	47	MICROTRANS. Micro Probe Multisensor for Graft Viability Monitoring During Organ preservation and Transplantation. Company and Product Information. (A printed publication published prior to February 9, 2004.) 13 pages.				
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JCH	48	NOLTE, D. et al. Simultaneous Non-Invasive Fluxmetry and Tissue Oxygen Monitoring in Fasciocutaneous Flaps. Abstract only. In Abstracts of the 16th Congress of the European Association for Cranio-Maxillofacial Surgery, 3-7 September 2002, Münster, Germany.				
	49	OAK RIDGE NATIONAL LABORATORY. Science and Technology. Institution and Research Information. (A printed publication published prior to February 9, 2004.)				
	50	SIMONSEN, M. Remote Diagnostics and Patient Monitoring Developments. (BBI at the MEDICA 2002 Exhibition). Abstract only. In BBI Newsletter, January 2003.				
	51	SOMMER, N. et al. Case Study: Microcirculatory Measurements in Chronic-venous Insufficiency (CVI) and Lipedema With O2C (Oxygen to See) – Observation of Effectivity of Physical Therapy. (A printed publication published prior to February 9, 2004.) Poster.				
	52	STIRBAN, ALIN et al. Differential Role of Type 2 Diabetes and Cardiovascular Autonomic Neuropathy in Impaired Control of Skin Microcirculation. Poster. (A printed publication published prior to February 9, 2004.)				
	53	UNIVERSITY OF ULSTER. Microtrans. From News and Events Archive 2000. 2 pages				
	54	UNIVERSITY OF ULSTER. UU Unveils Lifesaving Organ Transplant Sensor Technology. May 22, 2002. 2 pages.				
	55	VITAL MEDICAL LTD. Multiparametric Monitoring of Tissue and Body Vitality in Real time. Company and Product Information. (A printed publication published prior to February 9, 2004.) 13 pages.				
	56	WOLFF, K.D. et al. Hemoglobin Oxygenation of Venous-Perfused Forearm Flaps. Abstract only. In 1: Ann. Plast. Surg., Dec. 1998; 41(6): pp. 646-652; discussion pp. 652-653.				
	57	WOLFF, K.D. et al. Monitoring of Flaps by Measurement of Intracapillary Haemoglobin oxygenation with EMPHO II: Experimental and Clinical Study. Abstract only. In Br. J. Oral Maxillofac. Surg., Dec. 1996; 34(6):pp. 524-529.				
	58	WOLFF, K.D. et al. Cutaneous Hemoglobin Oxygenation of Different Free Flap Donor Sites. Abstract only. In Plast. Reconstr. Surg., Oct. 1998; 102(5):pp. 1537-1543.				
✓	59	WOLFF, K.D. et al. Intracapillary Haemoglobin Oxygenation and Interstitial pO2 in Venous Flaps: An Experimental Study in Rats. Abstract only. In Microsurgery 1998; 18(5):pp. 324-330.				
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Sheet	1	of	1	Attorney Docket Number	64693-101

## U.S. PATENT DOCUMENTS

[illegible]

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10-3-05



PTO/SB/08A (10-01)  
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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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		<b>First Named Inventor</b>	SHEHADA, Ramez Emile Nicola		
		<b>Art Unit</b>	3762		
		<b>Examiner Name</b>	Unknown		
<b>Sheet</b>	1	<b>of</b>	1	<b>Attorney Docket Number</b>	064693-0101

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LCK	1	US-4,703,756	11-03-1987	GOUGH et al.
	2	US-5,029,582	09-07-1991	LECKHOLM
	3	US-5,797,398	08-25-1998	BOWMAN
	4	US-6,106,477	08-22-2000	MIESSEL et al.

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LCK	5	US2002/0120200	08-29-2002	BROCKWAY et al.
	6	US2002/0183629	12-05-2002	FITZ

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